Federal Democratic Republic of Ethiopia

☞ EDICT OF GOVERNMENT ☜

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ET ISO 6443 (2005) (English): Door leaves -- Method for measurement of height, width, thickness and squareness

ISO INSIDE

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ETHIOPIAN STANDARD

ES ISO :2012

edition

Door leaves — Method for measurement of height, width, thickness and squareness

Identical with ISO 6443:2005

ICS:91.060.50
Published by Ethiopian Standards Agency
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1 Scope

This European standard applies to all rectangular door leaves and the measurable parameters of doors of other shapes.

This standard specifies the method to be used to measure the dimensions of height, width and thickness, and defects of squareness of door leaves.

2 Apparatus

2.1 Measurement instrument for height and width

Steel measuring tape or similar measuring instrument, accurate to 0,5 mm.

2.2 Measurement instrument for thickness

Micrometer or similar measuring instrument accurate to 0,01 mm.

2.3 Measurement instrument for squareness

A metal square having two arms with inside reference dimensions of (500 ± 1) mm. The right angle between the arms shall be accurate to 0,1 mm in 500 mm. The square shall incorporate a dial or digital gauge accurate to 0,1 mm mounted at the 500 mm reference point of one arm (see figure 1).

> NOTE : An additional block and feeler gauges may be used in place of the dial or digital gauge

3 Test specimens

Test specimens shall be stored and tested in a non-destructive environment within the ranges of 15 °C to 30 °C and 25 % to 75 % relative humidity.

Doors which are designed to be glazed, shall be supplied for testing with all glazing carried out in accordance with the door manufacturer's specifications.

4 Procedure

4.1 Height and width measurement

Measure, to the nearest 1 mm, the height and width of each door leaf along lines a-a, b-b, c-c, d-d parallel to, and (20 ± 5) mm from, each edge respectively (see figure 2).

> NOTE : In the case of a door leaf with rebated edges, the dimensions of height or width should be measured to the inner edges of the rebates.

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4.2 Thickness measurement

Measure the thickness at 6 points located (20 ± 5) mm from the edges and at the positions indicated in figure 2, to the nearest 0,1 mm.

NOTE : If a measuring point occurs where the thickness is not representative of the doors, e.g. because of surface profiles, local adjustment of the measurement position is permitted.

4.3 Squareness measurement

Measure any deviation from squareness of the door leaf at all four corners to the nearest 0,1 mm.

5 Expression of results

Record :

- height and width measurements and maximum deviations in relation to the specified dimensions ;
- thickness measurements and maximum deviation in relation to the specified dimension ;
- the four measured values of deviation from squareness.

6 Test report

The test report shall contain the following information :

a) reference to this European standard ;

b) all necessary details to identify the door leaf ;

c) all relevant details concerning the type, specified dimensions, materials, form and construction of the door leaf ;

d) laboratory storage and testing conditions ;

e) the results expressed as in clause 5 ;

f) name of testing laboratory ;

g) date of test.

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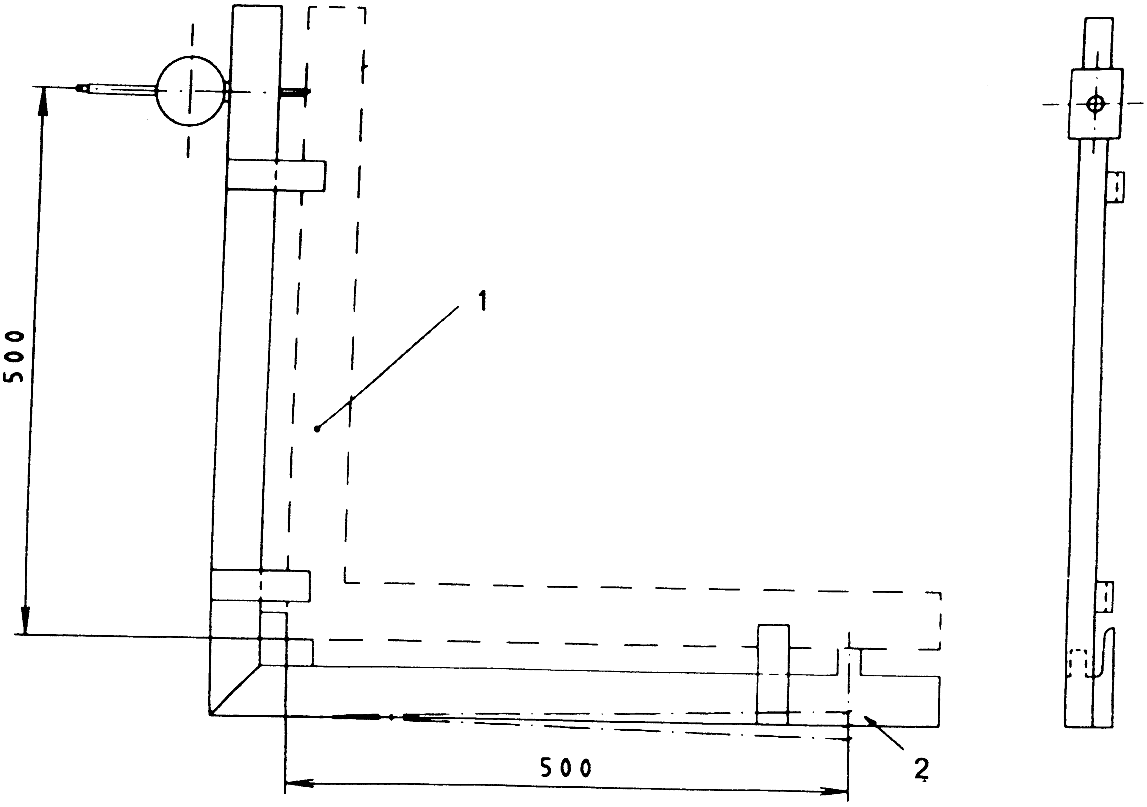
Dimensions in millimetres



1 Reference square to calibrate the instrument
2 Max. 0,1 mm deviation from squareness
Figure 1 : Measurement instrument for squareness including reference square for calibration

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Dimensions in millimetres

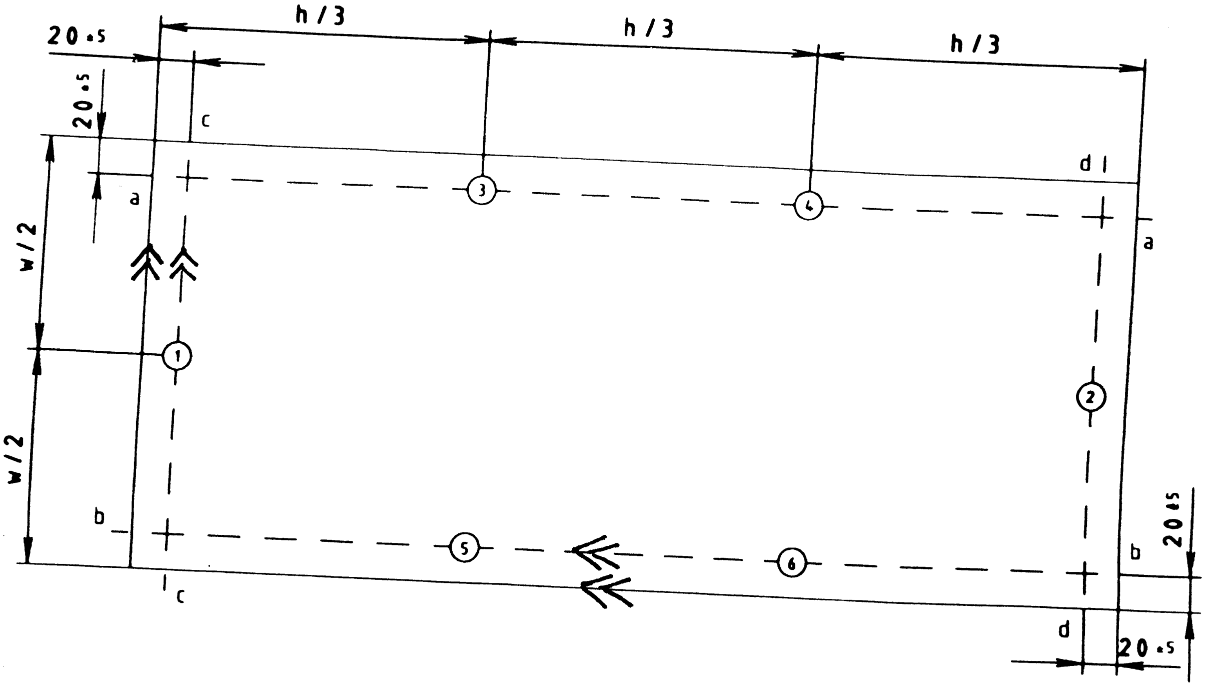

Figure 2 : Measuring points and lines for door leaf

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Ethiopian Standards Agency

Organization and Objectives

The Ethiopian Standards Agency (ESA) is the national standards body of Ethiopia established in 2010 based on regulation No. 193/2010.ESA is established due to the restructuring of Quality and Standards Authority of Ethiopia (QSAE) which was established in 1970.

ESA's objectives are:-

- ❖ Develop Ethiopian standards and establish a system that enable to check weather goods and services are in compliance with the required standards,
- ❖ Facilitate the country's technology transfer through the use of standards,
- ❖ Develop national standards for local products and services so as to make them competitive in the international market.

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The Ethiopian Standards are developed by national technical committees which are composed of different stakeholders consisting of educational Institutions, research institutes, government organizations, certification, inspection, and testing organizations, regulatory bodies, consumer association etc. The requirements and/ or recommendations contained in Ethiopian Standards are consensus based that reflects the interest of the TC representatives and also of comments received from the public and other sources. Ethiopian Standards are approved by the National Standardization Council and are kept under continuous review after publication and updated regularly to take account of latest scientific and technological changes.
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More Information?
Contact us at the following address.
The Head Office of ESA is at Addis Ababa.

☎ 011- 646 06 85, 011- 646 05 65
📠 011-646 08 80
✉ 2310 Addis Ababa, Ethiopia
E-mail: info@ethiostandards.org,
Website: www.ethiostandards.org

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